AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claim 1 (currently amended): A packaging material of the corrugated cardboard type, comprising:

~~made by gluing together~~ a plane paper layer ~~(11)~~:

~~and~~ an auxiliary paper layer ~~(12)~~ arranged below the plane paper layer, with waves presenting an amplitude (a) perpendicular to ~~the~~ a plane of propagation of the auxiliary paper layer, and where ~~the wave~~ tops of the waves form a system of substantially parallel waves ~~(10,~~ ~~10', 10")~~ presenting an amplitude (b) in the plane of propagation of said auxiliary paper layer ~~(13), a~~:

a second plane paper layer ~~(13) being~~ arranged below said auxiliary paper layer ~~(12),~~ ~~characterised in, that it comprises~~:

a second auxiliary paper layer ~~(14)~~ arranged below said second plane paper layer ~~(13)~~ ~~and optionally a~~: and

an optional third plane paper layer ~~(15)~~ arranged below said second auxiliary paper layer, wherein ~~and in that as far as~~ the waves ~~are concerned~~ which present an amplitude perpendicular to the direction of propagation of the two auxiliary paper layers ~~(12, 14), a~~ have a phase displacement φ ~~is~~ provided between the waves ~~of these layers~~, φ being in the range of

$$\frac{\pi}{4} - \frac{\pi}{3}.$$

Claim 2 (currently amended): A packaging material according to claim 1, ~~characterised in, that~~ wherein the waves of at least one type of waves on the auxiliary paper layers ~~(12, 14)~~ are rather flat on the sides in such a manner that the waves are of a substantially serrated shape, viz. triangular waves with tops and bottoms which are optionally slightly rounded, or the waves can be substantially "square", viz. square waves.

Claim 3 (currently amended): A packaging material according to claim 1, ~~characterised in, that the~~ wherein a surface of each auxiliary paper layer ~~(12, 14)~~ follows a face substantially corresponding to ~~the~~ mathematical functional expression:

$$z(x, y) = a \sin\left(\frac{2\pi}{\lambda_1} x + \frac{\pi}{2} + b \sin\frac{2\pi}{\lambda_2} y\right)$$

where a and λ_1 represent the amplitude and the wavelength, respectively, of the waves perpendicular to the plane of propagation of the auxiliary paper layer, and where b and λ_2 represent the amplitude and the wavelength, respectively, of the waves in the plane of said auxiliary paper layer, viz. the plane of propagation, and that the ratio

$$\frac{a}{b}$$

of the amplitudes for the two types of waves may be in the range of 0.10 to 0.60~~, preferably 0.15 to 0.50, especially 0.22 corresponding to a = 0.5mm and b = 2.25 mm~~.

Claim 4 (currently amended): A packaging material according to claim 1, ~~characterised in, that the~~ wherein a ratio

$$\frac{\lambda_1}{\lambda_2}$$

of the wavelengths for the two types of waves is in the range of 0.09 to 0.20 ~~and~~

~~preferably is approximately 0.15 corresponding to $\lambda_1 = 3.5$ mm and $\lambda_2 = 23.5$ mm.~~

Claim 5 (currently amended): A packaging material according to claim 2, ~~characterised~~

~~in, that~~ <u>wherein</u> the plane paper layers ~~(11, 13)~~ and the auxiliary paper layers ~~(12, 14)~~ are of the

same thickness, preferably between 0.05 and 0.3 mm~~, such as 0.1 mm, and that the auxiliary~~

~~paper layers (3) is of a weight of 50 to 250 g/m²/.~~

Claim 6 (currently amended): A packaging material according to claim 1 or 2,

~~characterised in, that~~ <u>wherein</u> starch-based or cold-water glue is used for the lamination of the

layers.

Claim 7 (new): A packaging material according to claim 3, wherein the ratio

$$\frac{a}{b}$$

of the amplitudes for the two types of waves is preferably 0.15 to 0.50.

Claim 8 (new): A packaging material according to claim 7, wherein the ratio

$$\frac{a}{b}$$

is 0.22 corresponding to a = 0.5mm and b = 2.25 mm.

Claim 9 (new): A packaging material according to claim 4, wherein a ratio

$$\frac{\lambda_1}{\lambda_2}$$

of the wavelengths for the two types of waves is approximately 0.15 corresponding to

$\lambda_1 = 3.5$ mm and $\lambda_2 = 23.5$ mm.

Claim 10 (new): A packaging material according to claim 5, wherein the plane paper

layers and the auxiliary paper layers are 0.1 mm thick, and the auxiliary paper layers is of a

weight of 50 to 250 g/m^2/.